

FIG. 6

PARTIAL DNA SEQUENCE FOR THE PLASMID FOR INSERTION INTO YEAST
IN WHICH: NUCLEOTIDE NOS. 1-173 MAKEUP THE MF 1 PROMOTER
REGION AND 5' NONCODING SEQUENCE. 174-440 IS THE MF 1 N-TERMINAL
CODING SEQUENCE. 441-695 IS AN HPTH SEQUENCE. 696-726 IS AN
HPTH 3' NONCODING SEQUENCE FROM pSSHPTH-10. 727-732 IF FROM
pUC19. 733-874 IS MF 1 3' NONCODING SEQUENCE AND TRANSCRIPTIONAL
TERMINATION SIGNAL

10		30
AGTGAAGAAAACCAAAAAGCAACAACAGGTTTTGGATAAGTACATATATAAGAGGGCCT		
70	90	110
TTTGTTC CATCAAAAATGTTACTGTTCTTACGATTCATTTACGATTCAAGAATAGTTCA		
130	150	170
AACAAGAAGATTACAACTATCAATTTATACACAATATAACGACCAAAAGAATGAGAT		
190	210	230
TTCCTTCAATTTTTACTGCAGTTTTATTTCGCAGCATCCTCCGCATTAGCTGCTCCAGTCA		
250	270	290
ACACTACAACAGAAGATGAAACGGCACAAATTCCGGCTGAAGCTGTCATCGGTTACTCAG		
310	330	350
ATTTAGAAGGGGATTTTCGATGTTGCTGTTTTGCCATTTTCCAACAGCACAAATAACGGGT		
370	390	410
TATTGTTTATAAATACTACTATTGCCAGCATTGCTGCTAAAGAAGAAGGGGTATCTTTGG		
430	450	470
ATAAAAGAGAGGCTGAAGCTWSNGTWSNGARATHCARYTNATGCAYAAYYTNGGNAARC		
490	510	530
AYYTNAAYWSNATGGARMGNGTNGARTGGYTNMGNAARAARYTNCARGAYGTNCAYAAYT		
550	570	590
TYGTNGCNYTNGGNGCNCNYTNGCNCNMGNAYGCNGGWSNCARMGNCNMGNAARA		
610	630	650
ARGARGAYAAYGTNYTNGTNGARWSNCAYGARAARWSNYTNGGNGARGCNGAYAARGCNG		
670	690	710
AYGTNAAYGTNYTNACNAARGCNAARWSNCARTRRRAATGAAAACAGATATTGTCAGAGT		
730	750	770
TCTGCTCTAGAGTCGACTTTGTTCCCACTGTACTTTTAGCTCGTACAAAATACAATATAC		
790	810	830
TTTTCATTTCTCCGTAAACAACCTGTTTTCCCATGTAATATCCTTTTCTATTTTTCTGTTT		
850	870	
CGTTACCAACTTTACACATACTTTATATAGCTAT, WHEREIN		

M = A OR C
 R = A OR G
 W = A OR T
 S = C OR G
 Y = C OR T
 H = A OR C OR T
 N = A OR G OR C OR T

FIG. 7

NUCLEOTIDE SEQUENCE OF THE MF 1-HPTH FISION GENE FROM pS LX5-HPH1.
 NUCLEOTIDE NOS. 1-173 MAKEUP THE MH 1 PROMOTER REGION AND 5'
 NONCODING SEQUENCE. 174-440 IS THE MF 1 N-TERMINAL CODING
 SEQUENCE. 441-695 IS THE HPTH SEQUENCE OBTAINED FROM pSSHPTH-10.
 696-726 IS AN HPTH 3' NONCODING SEQUENCE FROM pSSHPTH-10. 727-732
 IS FROM pUC19. 733-874 IS MF 1 3' NONCODING SEQUENCE AND
 TRANSCRIPTIONAL TERMINATION SIGNAL

10	30	50
AGTGAAGAAAAACCAAAAAGCAACAACAGGTTTTGGATAAGTACATATATAAGAGGGCCT		
70	90	110
TTTGTTCCTCATCAAAAATGTTACTGTTCTTACGATTCATTTACGATTCAAGAATAGTTCA		
130	150	170
AACAAGAAGATTACAACTATCAATTTATACACAATATAAACGACCAAAAGAATGAGAT		
190	210	230
TTCTTCAATTTTTACTGCAGTTTTATTGCGAGCATCCTCCGATTAGCTGCTCCAGTCA		
250	270	290
ACACTACAACAGAAGATGAAACGGCACAAATTCCGGCTGAAGCTGTCATCGTTACTCAG		
310	330	350
ATTTAGAAGGGGATTTTCGATGTTGCTGTTTTGCCATTTTCCAACAGCACAAATAACGGGT		
370	390	410
TATTGTTTATAAATACTACTATTGCCAGCATTGCTGCTAAAGAAGAAGGGGTATCTTTGG		
430	450	470
ATAAAAGAGAGGCTGAAGCTTCTGTGAGTGAAATACAGCTTATGCATAACCTGGGAAAAC		
490	510	530
ATCTGAACCTCGATGGAGAGAGTAGAATGGCTGCGTAAGAAGCTGCAGGATGTGCACAATT		
550	570	590
TTGTTGCCCTTGGAGCTCCTCTAGCTCCCAGAGATGCTGGTTCCAGAGGCCCCGAAAAA		
610	630	650
AGGAAGACAATGTCTTGTTGAGAGCCATGAAAAAAGTCTTGAGAGGCAGACAAAGCTG		
670	690	710
ATGTGAATGTATTAATAAGCTAAATCCAGTGAAAAATGAAAACAGATATTGTCAGAGT		
730	750	770
TCTGCTCTAGAGTCGACTTTGTTCCCACTGTACTTTTAGCTCGTACAAAATACAATATAC		
790	810	830
TTTTCATTTCTCCGTAAACAACCTGTTTTCCCATGTAATATCCTTTTCTATTTTTCGTTT		
850	870	
CGTTACCAACTTTACACATACTTTATATAGCTAT		

FIG. 10A

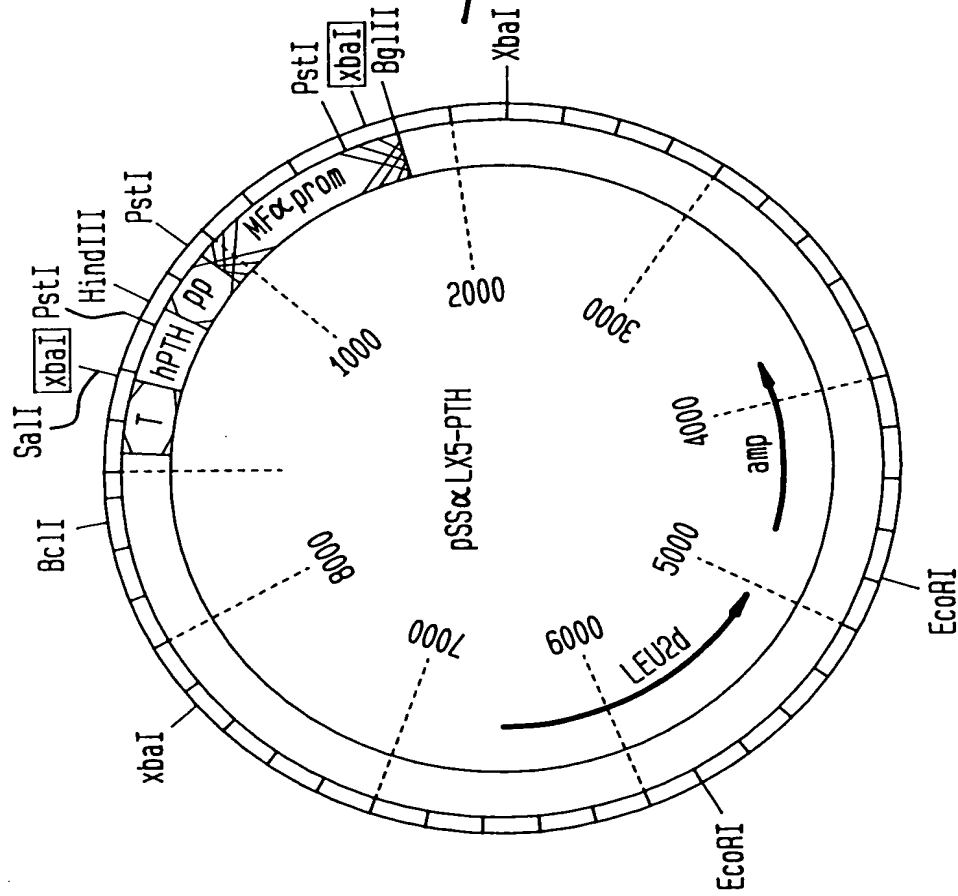
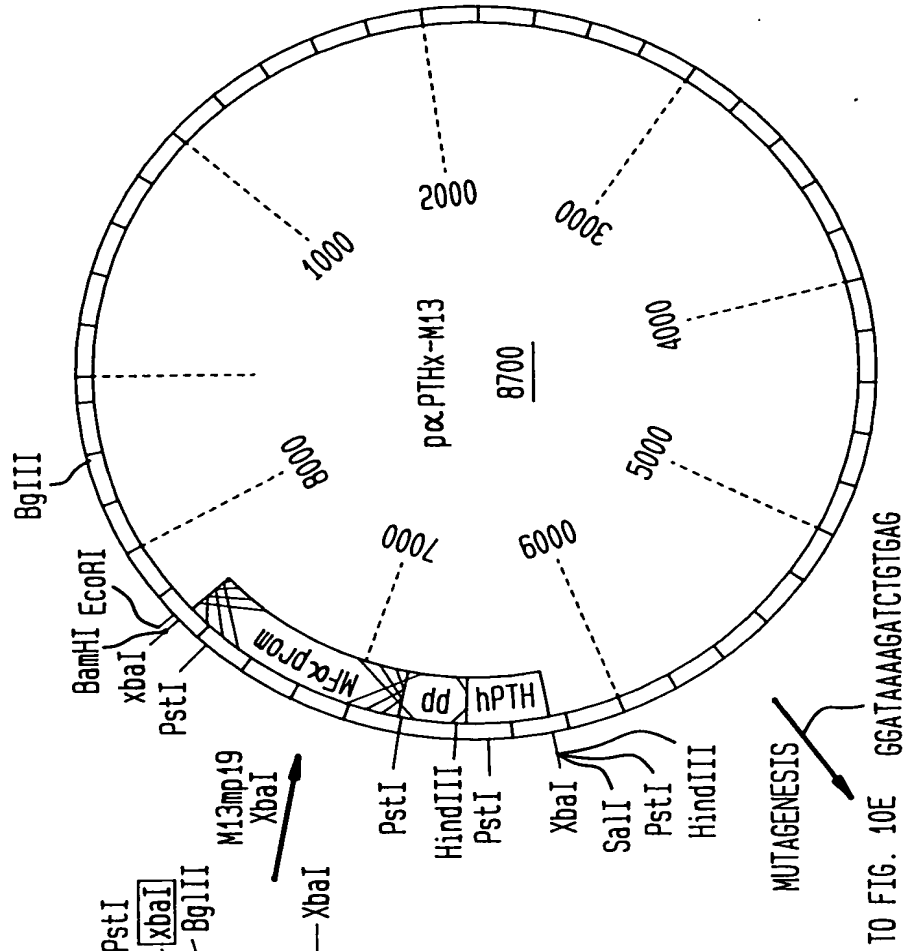


FIG. 10B



MUTAGENESIS

TO FIG. 10E GGATAAAGATCTGTGAG

FIG. 10C

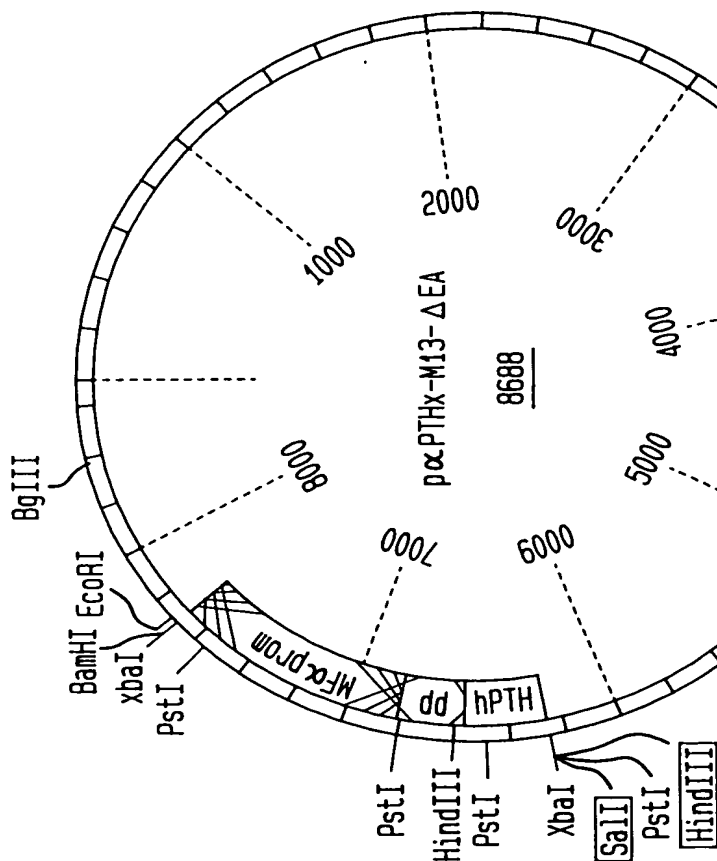


FIG. 10D

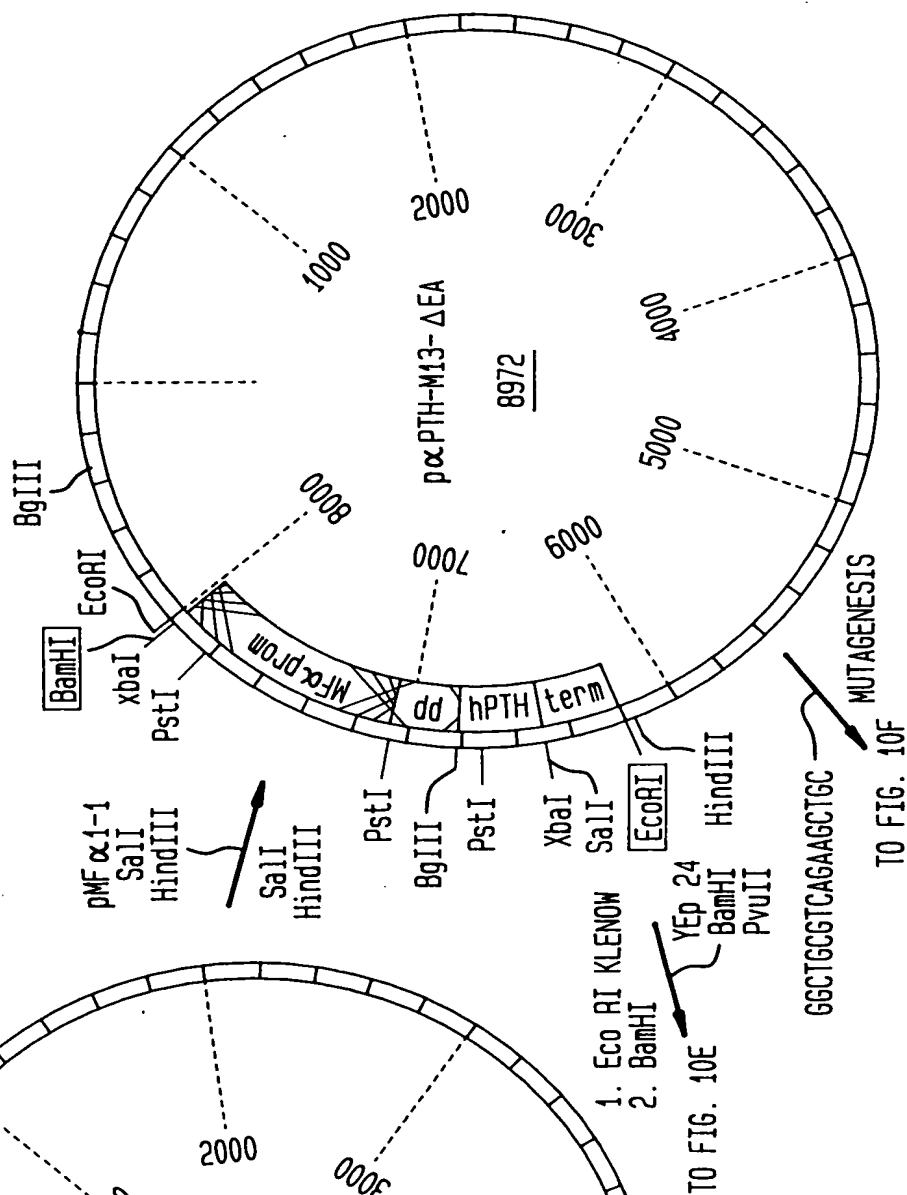


FIG. 10E

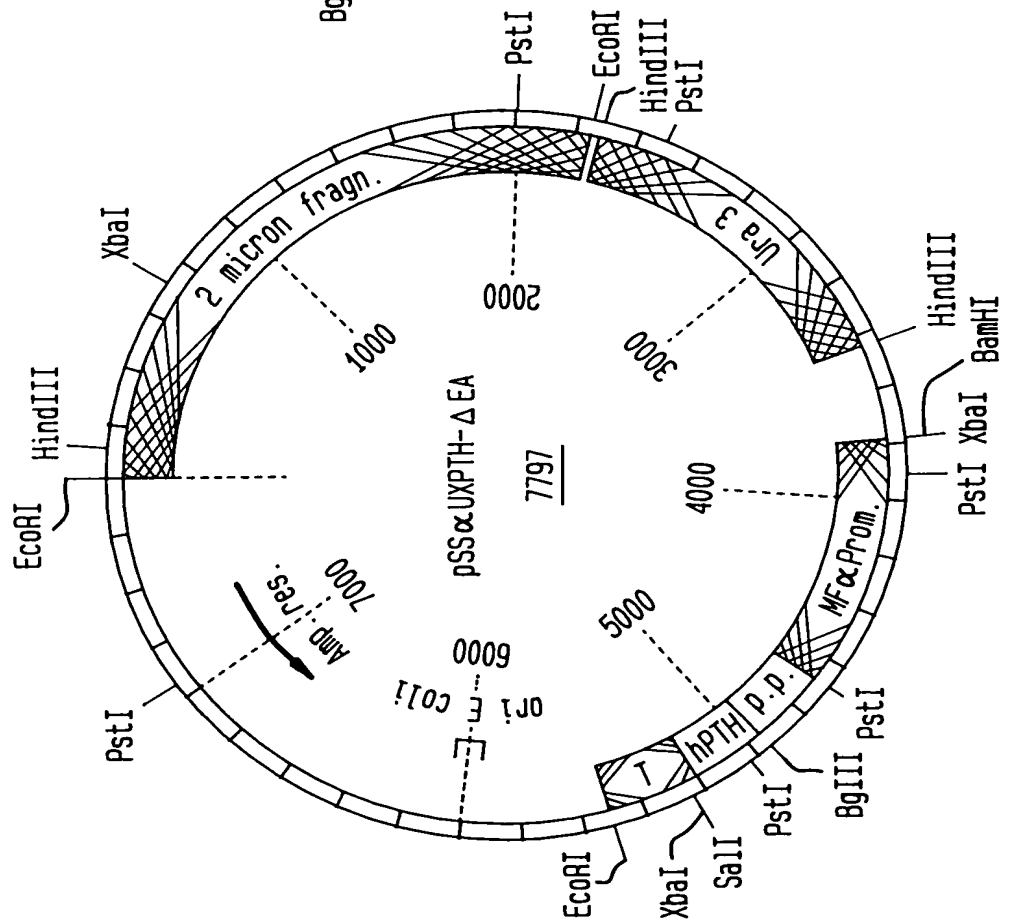
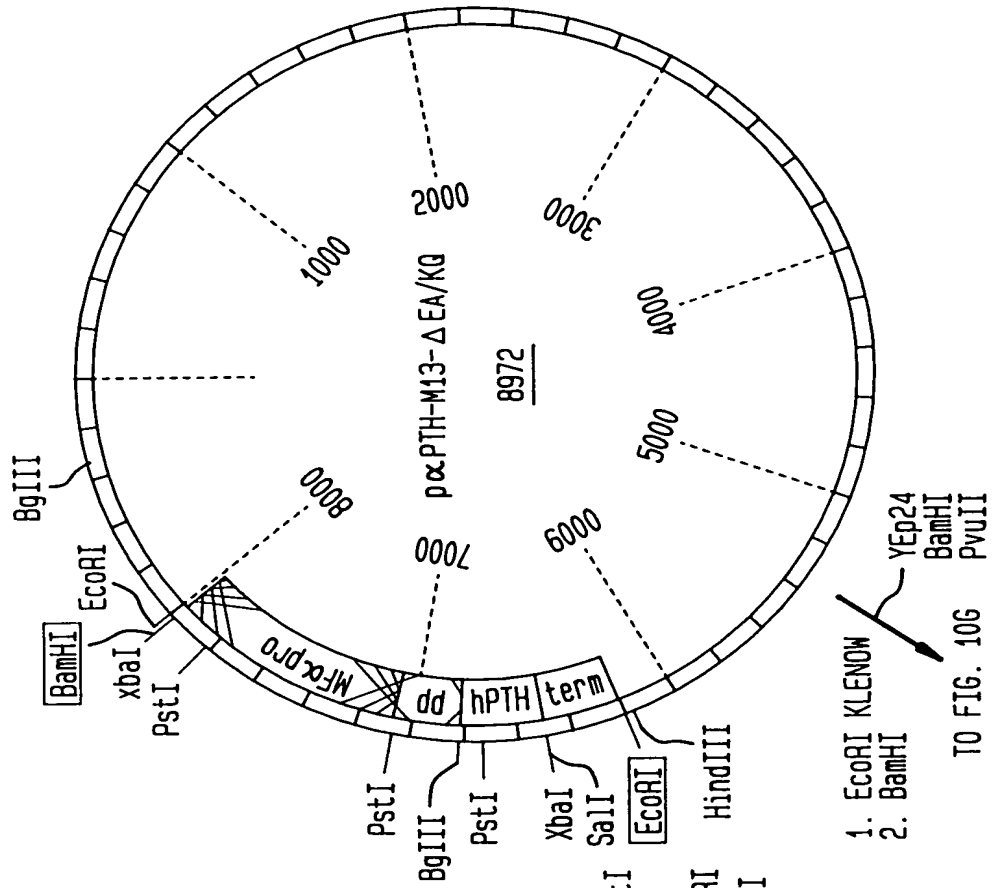


FIG. 10F



1. EcoRI KLENOW
 2. BamHI
- TO FIG. 10G

FIG. 10G

